

Title (en)

Aperture measuring system for cord reinforced tyre fabric.

Title (de)

System zur Abstandsmessung der Kabel einer verstärkten Reifenstruktur.

Title (fr)

Système pour mesurer l'écartement des câbles renforçant une structure de pneu.

Publication

EP 0239689 B1 19940525 (EN)

Application

EP 86302498 A 19860404

Priority

US 81448685 A 19851230

Abstract (en)

[origin: EP0239689A2] A system for measuring the open space between, and the ratio of open space to cord diameter, of cord reinforced tyre fabric. A collimated X-ray source and detector scan across the tyre fabric as it is calendered providing a signal corresponding to each edge of a cord. A counter counting at a constant rate provides a time interval measurement of each open space, and also of the corresponding open space plus cord, as the X-ray source and detector scans the fabric. The quotient of the two time intervals determined is proportional to the fractional open space at a particular location in the fabric. An alarm is provided to indicate when the open space is outside predetermined limits.

IPC 1-7

G01N 23/16

IPC 8 full level

G01N 23/06 (2006.01); **G01N 23/18** (2006.01); **G01V 5/00** (2006.01)

CPC (source: EP KR US)

B29D 30/00 (2013.01 - KR); **G01N 23/06** (2013.01 - KR); **G01N 23/083** (2013.01 - EP US); **G01N 23/16** (2013.01 - EP US); **G01N 23/185** (2013.01 - EP US); **G01N 2223/627** (2013.01 - EP US)

Cited by

US4857749A; US5060250A; GB2290138A; US5380366A; US5208064A; AU668639B2

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0239689 A2 19871007; **EP 0239689 A3 19880406**; **EP 0239689 B1 19940525**; CA 1239484 A 19880719; DE 3689854 D1 19940630; DE 3689854 T2 19941208; JP S62159032 A 19870715; KR 870005793 A 19870707; KR 940002507 B1 19940325; US 4980902 A 19901225

DOCDB simple family (application)

EP 86302498 A 19860404; CA 516119 A 19860815; DE 3689854 T 19860404; JP 10397986 A 19860508; KR 860002764 A 19860411; US 81448685 A 19851230